



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re A	application of:	)	
		:	Examiner: C. Chaney
SOICE	IIRO KAWAKAMI ET AL.	)	
		:	Group Art Unit: 1745
Applic	ation No.: 09/879,227	)	
		:	
Filed:	June 13, 2001	)	
		:	
For:	HIGH ENERGY DENSITY	)	
	SECONDARY BATTERY FOR	:	
	FOR REPEATED USE	)	January 13, 2004

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

# REQUEST FOR CONSIDERATION OF INFORMATION DISCLOSURE STATEMENT

Sir:

A Notice of Allowance issued in the above-identified application on December 31, 2003. Prior to payment of the issue fee, Applicants respectfully request consideration of the information cited in the Second Information Disclosure Statement (IDS) filed on August 22, 2001. Copies of the stamped returned receipt postcard and the printout from the PTO's PAIR system, indicating that the IDS was received in the U.S. Patent and Trademark Office on August 22, 2001 are attached. Also attached is a copy of the IDS together with the PTO-1449 form filed therewith.

It is respectfully requested that the information listed on the PTO-1449 form be considered by the Examiner, and that a copy of the PTO-1449 form be returned, with the Examiner's initials, indicating that the initialed information has been considered.

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

ttorney for Applicants

Registration No.

48,512

FITZPATRICK, CELLA, HARPER & SCINTO 30 Rockefeller Plaza
New York, New York 10112-3801
Facsimile: (212) 218-2200

NY\_MAIN 400402v1

	Atty. Docket <u>35.C 9574 D5</u> Sir: Application No. 09/879, 227
	Kindly acknowledge receipt of the accompanying:
	Response to Official Action.
J. Z	Check for \$(claims fee)
FCHS-B-00	Petition under 37 CFR 1.136 and Check for \$ AU6 2 2 2001
8	☐ Notice of Appeal and Check for \$
•	Information Disclosure Statement, PTO-1449 and One Company of the
	Claim for priority and certified copies ofpriority applications
	☐ Issue fee transmittal and Check for \$
	☐ Other (specify)
	by placing your receiving date stamp hereon and mailing or returning to deliverer.
	110 37 CFR 18 □
	Atty. $JMO/H$ Due Date $9/3/01$ 37 CFR 1.8 $\square$ 37 CFR 1.10 $\square$
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

in re A	pplication of:	)	EC Classic
SOICH	IIRO KAWAKAMI ET AL.	;	Examiner: C. Chaney
Applic	ation No.: 09/879,227	)	Group Art Unit: 1745
Filed:	June 13, 2001	)	
For:	HIGH ENERGY DENSITY SECONDARY BATTERY FOR FOR REPEATED USE	; ; )	August 21, 2001

Commissioner for Patents Washington, D.C. 20231

### INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449.

This Information Disclosure Statement lists documents cited in the parent applications. In accordance with 37 C.F.R. §1.98(d), copies of the documents that are available in the parent applications from which the present application claims benefit under 35 U.S.C. § 120 are not enclosed. The Examiner is respectfully invited to review the parent applications for such documents.

#### CONCLUSION

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

Registration No. P48, 512

FITZPATRICK, CELLA, HARPER & SCINTO 30 Rockefeller Plaza

New York, New York 10112-3801 Facsimile: (212) 218-2200

FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE				ATTY DOCKET NO. APPLICATION NO. 09/879,227						
16	PATEN	T AND TRADEMARK	OFFICE APPLICANT(S)	APPLICANT Soichiro Kawa	APPLICANT Soichiro Kawakami t al.					
	(Use	sere al sheets if nece	ssary)	FILING DATE						
1 1	1 4 20	<i>≨</i> 1		U.S. PATENT DOCUMENTS		11/	'45			
*EXAMINES	PRADEN	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE			
,	4,326,014 04/20/82			Dey	429	48				
		4,812,375	03/14/89	Foster	429	101				
		5,147,739	09/15/92	Beard	429	343				
		4,677,041	06/30/87	Specht	429	206				
		4,654,281	03/31/87	Anderman et al.	429	209				
		4,520,084	05/28/85	Tinker et al.	429	101				
		5,328,782	06/12/94	Binder et al.	429	101				
		4,071,662	01/31/78	Mead et al.	429	178				
	1	Τ	T I	FOREIGN PATENT DOCUMENTS	1					
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT			
	EP	0 130 049	01/02/85	Europe		:				
	EP	0 195 684	09/24/86	Europe			·			
	EP	0 517 070	01/12/93	Europe						
	GB	2 024 500	01/09/80	United Kingdom						
	GB	2 070 847	09/09/81	United Kingdom						
	Γ			ENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)						
<u> </u>	-			, No. 26, Abst. No. 259054, Jun. 29, 1992.						
		Chem. Abstracts, vol. 110, No. 14, Abst. No. 118 380, Apr. 3, 1989.								
	<del> </del>	Chem. Abstracts, vol. 107, No. 12, Abst. No. 99798, Sep. 21, 1987.  Chem. Abstracts, vol. 116, No. 20, Abst. No. 197706c, May 18, 1992.								
		<u> </u>		, No. 22, Abst. No. 1977060, May 16, 1992 , No. 22, Abst. No. 218168w, Jun. 1, 1992						
		f		, No. 2, Abst. No. 9423c, Jan. 11, 1993.						
				, No. 12, Abst. No. 110107m, Mar. 23, 199	2.	· · · · · · · · · · · · · · · · · · ·				
				ı, vol. 8, No. 39 (E-228), Feb. 1984.						
		·		ı, vol. 13, No. 147 (E-741), Apr. 1989.						
EXAMINER										

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE					ATTY DOCKET NO. 35.C8574 D5 APPLICATION NO. 09/879,227				
LIST	PATEN	IT AND TRADEMARK ERENCES CITED BY	OFFICE	E	APPLICANT Soichiro Kawakami tal.				
	(Use	several sheets if nece	ssary)/	٠(	GROUP GROUP				
			JAN 1	4 2004	June 13, 2001		17	745	
*EXAMINER INITIAL		DOCUMENT DATE TRADEMAN		DEMARY		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	5,370,950 02/06/94		Kageyama	429	232				
		5,354,631	10/11/94		Chaloner-Gill et al.	429	137		
		5,169,736	02/08/92		Bittihn et al.	429	300		
		5,310,553	05/10/94		Simon et al.	429	212		
		5,464,453	11/07/95		Tong et al.	29	25.03		
		3,625,771	12/07/71		Arrance et al. 42		136		
		4,861,573	08/29/89		de Neufville et al.	423	464		
		5,135,732	08/04/92		Barboux et al.	423	599		
	1		<u> </u>	FC	DREIGN PATENT DOCUMENTS		<del> </del>		
	DOCUMENT DATE NUMBER				COUNTRY		SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT	
	DE	23 60 026	06/05/75		Germany				
	DE	38 38 329	05/24/89		Germany				
	JP	4-2065	01/07/92		Japan			Abstract	
	JP	55-16342	02/05/80		Japan				
	FR	2.195.846	08/03/74		France				
			OTHER DOCU	JMENT(S	S) (Including Author, Title, Date, Pertinent Pages, Etc.)				
		Patent Abst	racts of Jap	an, vo	ol. 6, No. 147 (E-123), Aug. 1982.				
	Patent Abstracts of Japan, vol. 5, No. 55 (E-052), Apr. 1981.								
Patent Abstracts of Japan, vol. 7, No. 288, (E-218), Dec. 1983.									
	Patent Abstracts of Japan, vol. 7, No. 258 (E-211) (1403), Nov. 1983.  Patent Abstracts of Japan, vol. 8, No. 081 (E-238) 1984 (no month).  Patent Abstracts of Japan, vol. 7, 251 (E-209) 1983 (no month).							· · ·	
		Chem. Abst	racts, vol. 1	06, No	o. 24, Jun. 1987 No. 199239.				
		Patent Abst	ract of Japa	n, vol	. 14, No. 215 (E-900) (4068) 1990 no	month.			
	<u> </u>	Chem. Abst	racts vol. 10	7, No	. 6, Ab. 43148 (1987) non month.				
EXAMINER		. <u> </u>			DATE CONSIDERED				

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified)				ATTY DOCKET NO. APPLICATION NO. 09/879,227						
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE OFF				APPLICANT						
LIST C	OF REFE Use:	RENCES CITED BY A several sheets if neces	APPLICANT(S) ssary)		Soichiro Kawakami tal.					
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		5,001,023	03/19/91	Cheshire et al.	429	94				
		5,264,201	11/23/93	Dahn et al.	423	594				
	-	5,196,281	03/23/93	Pensabene et al.	429	211				
		4,917,976	04/17/90	Wakahira et al.	429	220				
		4,684,590	08/04/87	Sammells	429	194				
,		4,567,031	01/28/86	Riley	423	593				
•		5,180,574	01/19/93	Von Sacken	423	594				
		4,279,978	07/21/81	Dodin et al.	429	248	_			
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		DOCUMENT NUMBER	DATE	- COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT			
	EP	0 394 917	10/30/90	Europe						
	FR	2 584 867	01/16/87	France						
	EP	0 571 858	12/01/93	Europe			· · · ·			
	wo	84/2333	06/21/84	WIPO						
	FR	2 298 193	08/13/76	France						
				NT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)						
				No. 16, Abst. 137458, October 16, 1989						
		Chem. Abstracts vol. 112, No. 22, Abst. 202095 (1990) no month.								
	Chem. Abstracts vol. 104, No. 22, Abst. 189696, June 2, 1986.									
	Chem. Abst. 116, No. 16, Ab. 155465 (1992) no month.  Thevenin et al., "Study of the Li/Li <sub>3</sub> N Electrode in an Organic Electrolyte," 134(11) J.									
			<u>ı. Soc.</u> 2650-26		400 404	/407E\				
	-	-		Reversibles", 84(b) Rev. Gen. Eleca eable Li <sub>x</sub> TiS/LiAlCl <sub>4</sub> /Li <sub>1.x</sub> CoO <sub>2</sub> Solid-Sta						
	_	El ctroch m	1. Soc. 1509-15	13 (1992).						
EXAMINER				DATE CONSIDERED						

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FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE					ATTY DOCKET NO. 35.C8574 D5 APPLICATION NO. 09/879,227						
LIST	PATEN OF REFE	EPARTMENT OF COM T AND TRADEMARK ERENCES CITED BY	APPLICANT(S)		APPLICANT Soichir	o Kawakami	et al.				
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		3,953,241	04/27/76		Langer et al.	13	6 145				
		4,323,480	04/06/82		Dines et al.	25	2 439				
		5,110,696	05/05/92		Shokoohi et al.	42	9 218				
·		5,700,596	12/23/97		Ikoma et al.	42	9 206				
(		5,441,832	08/15/95		Macklin et al.	42	9 218				
•		4,594,299 06/10/86			Cook et al.		9 129				
•		5,238,758	08/24/93		Lee et al.	42	9 191				
		5,320,723	06/14/94		Kawakami	20	4 140				
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		DOCUMENT NUMBER	DATE		COUNTRY	CLA	SS SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT			
	DE	31 17 660	11/25/82		Germany						
	ΕP	0 243 653	11/04/87		Europe						
	DE	38 26 281	02/01/90		Germany			Abstract			
	EP	0 394 917	10/31/90		Europe						
	EP	0 517 070	12/09/82		Europe						
	, <del></del> -		OTHER DOCU	MENT(S) (I	Including Author, Title, Date, Pertinent Pag	es, Etc.)					
		Patent Absti 61295235).	acts of Japa	an, vol.	11, no. 167 (C-425), May 2	8, 1987 (Corre	esponding to	o JP			
		Database W 295235).	Database WPI, Section Ch, Week 8706, Class E32, AN 87-039672 (Corresponding to JP 61-								
		Database W 149771).	Database WPI, Section Ch, Week 8202, Class L03, AN 82-02774E (Corresponding to JP 56-								
		Patent Absti 149771).	acts of Japa	an, vol.	6, no. 28 (E-095), February	19, 1982 (Co	rresponding	g to JP 56-			
		R. Moshtev,	"Vanadium- iical Perform	Doped	lithium Trichromite: Prope n Rechargeable Li Cells,"	erties, Crysta 34(2 <u>) J. Powe</u>	Structure a	nd 9-139			
EXAMINER	L	1 (			DATE CONSIDERED						

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PE VC)					ATTY DOCKET NO. APPLICATION NO. 09/879,227			27	
LIST	OF REFE	PARTMENT OF COM T AND TRADEMARK ERENCES CITED BY	,	, 500p	APPLICANT Soichiro Kawa	kami	t al.		
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	i	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT	
	JP	2-284358	11/20/90		Japan			Abstract	
	JP	2-234351	09/17/90		Japan	ļ		Abstract	
	JP	3-289069	12/19/91		Japan			Abstract	
	JP	4-22072	01/27/92		Japan			Abstract	
	JP	4-58456	02/25/92		Japan			Abstract	
		<u> </u>			(Including Author, Title, Date, Pertinent Pages, Etc.)				
	Chem. Abstracts, vol. 111, no. 14, October 2, 1989, Abstr. No. 122659.								
	J.J. Auborn et al., "Lithium Intercalation Cells Without Metallic Lithium," 134(3) <u>J. Electroch</u> m <u>Soc.</u> 638-641 (1987).								
EXAMINER		L			DATE CONSIDERED				

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.